ABSTRACT OF THE DISCLOSURE

A photovoltaic module for converting laser radiation from a laser emitting light at a wavelength to electrical power is provided. The module comprises: (a) a housing having a cavity of generally optimized closed shape inside the housing, the cavity having an internal surface area A_s and including an opening for admitting the laser radiation into the cavity, the opening having an entrance aperture area A_i that is substantially smaller than A_s; and (b) a plurality of photovoltaic cells within the cavity, the photovoltaic cells having an energy bandgap to respond to the wavelength and generate the electrical power.